STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: A-836339

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled X
Not Controlled ☐

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

- The substance is a synthetic cannabinoid with potent CB₂ cannabinoid receptor agonist activity and therefore included under item 1 of Schedule II to the CDSA.

Prepared by: ________________________________ Date: _____________
Zack Li

Verified by: ________________________________ Date: _____________
Mark Kozlowski

Approved by: ________________________________ Date: _____________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Ali Feroz, Office of Controlled Substances
Drug Status Report

Drug: A-836339

Drug Name Status: A-836339 is the common name.

Chemical Name: N-[3-(2-methoxyethyl)-4,5-dimethyl-1,3-thiazol-2-ylidene]-2,2,3,3-tetramethylcyclopropane-1-carboxamide

Other Names: A-836,339

Chemical structure:

![Chemical structure diagram]

Molecular Formula: C_{16}H_{26}N_{2}O_{2}S  
CAS-RN: 959746-77-1

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: A-836339 is not listed specifically in the Schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control.

Canadian Status: A-836339 is not listed specifically in the CDSA. The substance is a synthetic cannabinoid and in studies evaluating its analgesic effects, A-836339 has been found to demonstrate agonist activity at the CB2 cannabinoid receptor\(^1\) in vivo. Cannabinoid receptor agonists are currently included under the heading “Cannabis, its preparations, derivatives and similar synthetic preparations” of item 1 in Schedule II to the CDSA, whereas cannabinoid receptor antagonists are specifically excluded. Given that A-836339 demonstrates cannabinoid receptor agonist activity, it must be included under item 1 of Schedule II to the CDSA.

Recommendation: A-836339 is included in item 1 of Schedule II to the CDSA and is a controlled substance.

Date: June 1st, 2012.

\(^1\) McGaraughty, S et al. (2009) A CB2 receptor agonist, A-836339, modulates wide dynamic range neuronal activity in neuropathic rats: Contributions of spinal and peripheral CB2 receptors, Neuroscience. 158: 1652-1661